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The 1995 Iowa Corn Yield Test Report, District 7

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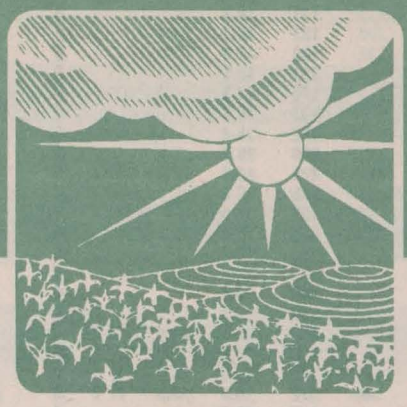
Abstract

Results of the Iowa Corn Yield Test are published to aid Iowa farmers in selecting corn hybrids. This is the seventy-sixth consecutive year for the test. These data are first released on Iowa State University Extension's electronic information delivery system (EXNET), usually around the end of November. Anyone can access the information on EXNET and receive the data as soon as they are released. Information provided on EXNET can be accessed in three ways: by modem at (515) 294-8354 and logging in as "guest," through Internet using World Wide Web (WWW) at URL:http://www.exnet.iastate.edu, or through Internet using telnet to exnet.iastate.edu and logging in as "guest." For additional information about EXNET. contact EXNET, 110 EES Bldg., Haber Rd., Iowa State University, Ames. Iowa 50011-3070, telephone number (515) 294-8658.

Disciplines

Agriculture



AGRONOMY
- Crops
- Soils
- Climate

A supplement to the December 16, 1995 issue of *Iowa Farmer Today*

The 1995 Corn Yield Test Report District 7

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The next released format of the data is on computer diskettes, which include a hybrid selection computer program described in another section of this report. These diskettes are usually available a week to 10 days after the data are released on EXNET.

The final format is the printed version, which is being printed and distributed by *Iowa Farmer Today* in its Dec. 16, 1995 issue. A few days later, the reports are also available from county extension offices.

The presentation of data for the hybrids tested does not imply approval or endorsement by the authors or the agencies sponsoring or conducting the test. Entries in Tables 1 and 2 are designated by brand name and variety.

Use of the Data in Advertisements

Iowa State University desires to maintain the credibility of data from the Iowa Corn Yield Test. Misuse of these data in advertisements can have a negative effect on the perception of the value of these data. For advertising purposes, brand to brand comparisons should not be made unless more than one competitor brand is used in the ad and all entries of those brands in a given table are included in the ad. Advertisement statements by an individual company about the performance of its entries can be made as long as they are accurate statements about the data as published with no reference to other companies' hybrids. A statement similar to: "See the official Iowa State University Extension Corn Yield Test Report, Pm-660-(1-7)-95, for details," should be included in the ad.

1995 Procedure

Producers of seed corn and Iowa State University were eligible to enter varieties in the Iowa Corn Yield Test. Each producer was allowed a maximum of six paid entries per district. All entries had to be available in a quantity of at least 10 bushels of seed.

In 1995, 182 entries were evaluated in this district. Fifteen of the entries determined to be widely grown were entered by Iowa State University. In June, survey cards are mailed to a random sample of corn growers in Iowa. Based on the survey results, the 15 hybrids grown on the most acres in a district are classified as widely grown for that district. The widely grown hybrids (*) in this report were determined by the 1994 survey. Iowa State University entered a maximum of three widely grown hybrids of any given brand. These entries were given priority over the remaining 167 entries made by seed producers.

Each entry was replicated four times in four-row plots at a planting rate of 26,500 kernels per acre at each location. All locations were machine-planted. The center two rows of each plot were harvested with a corn combine. No gleanings or dropped ears were included in yield data. A moisture determination was made from each plot and yields were corrected to 15.0 percent moisture for shelled corn.

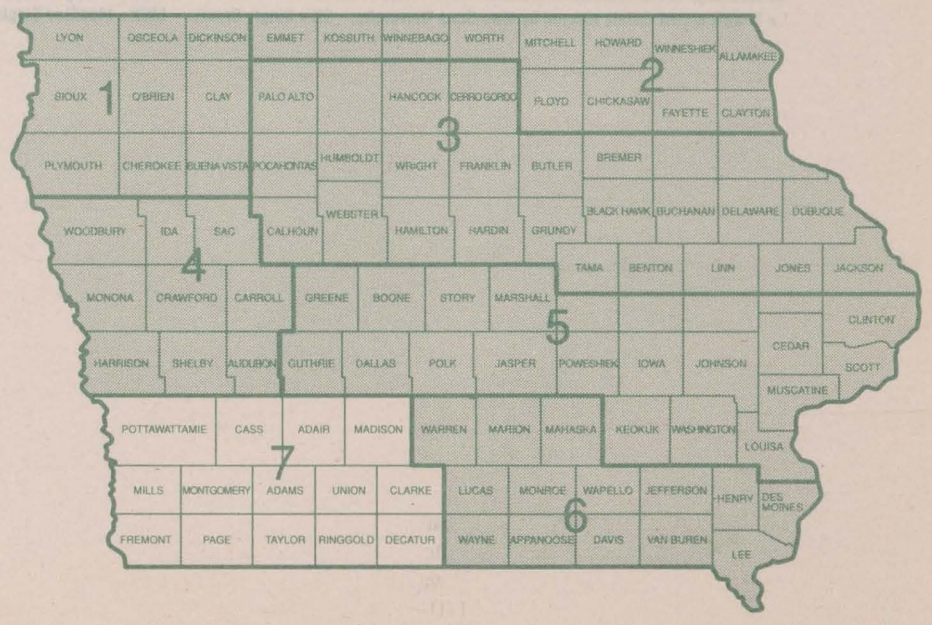
Since 1988, data for protein, oil, and starch percentages have been included in the Iowa Corn Yield Test Reports. Protein, oil, and starch were measured on an Infratec 1225 near-infrared transmittance analyzer calibrated against accepted chemical methods as done by Woodson-Tenant Labs, Des Moines, Iowa. Dr. Charles R. Hurburgh, Jr. of the ISU Department of Agricultural and Biosystems Engineering was responsible for analyzing the samples. Samples for nutrient analysis were collected from one field in each district. Data presented are averages of the four replicated plots in that field. To be consistent with the yield data, the protein, oil, and starch data were corrected to 15.0 percent moisture.

How Information Is Presented

The agronomic data presented are averages of three locations in 1993 and 1994, and two locations in 1995. Yield in bushels per acre and percentages of moisture, root lodging, stalk lodging, dropped ears, stand, protein, oil, and starch are shown for all entries in 1995 and for those tested in 1993 and 1994 that were in the 1995 test.

Interpretation of Results

Yield differences due to variation in soil, fertility, moisture availability, insect infestation, and diseases, plus any variation due to planting and harvesting techniques, are identified through statistical analysis. The LSD values for yield shown in Tables 1 and 2 represent, in bushels per acre, the amount of yield variation that could be due to variations in the factors just mentioned. In comparing varieties, yield differences greater than the LSD value can be attributed to genetic differences in the yield potential of these varieties; yield differences less than the LSD value are not statistically different and could have been due to other factors.



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Iowa Crop Improvement Association

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University Extension

Ames, Iowa

Table 2. Averages of 1994-95 and 1993-95 of varieties tested in District 7.
LSD for yields are 5 bushels for 93-95 and 7 bushels for 94-95.

93-95 protein LSD = 0.2. 93-95 oil LSD = 0.1. 93-95 starch LSD = 0.2.
94-95 protein LSD = 0.2. 94-95 oil LSD = 0.1. 94-95 starch LSD = 0.3.

			Yield Bu/A		Moisture Pct		Root Ldg Pct		Stalk Ldg Pct		Drop Ear Pct		Stand Pct		Protein Pct		Oil Pct		Starch Pct			
Brand	Variety	Cross	93-95	94-95	94-95	93-95	93-95	94-95	93-95	94-95	93-95	94-95	93-95	94-95	93-95	94-95	93-95	94-95	93-95	94-95	Variety	Brand
*DeKalb	DK580	SX		147	15.3			0		3		0		95		8.1		3.1		61.3	DK580	*DeKalb
DeKalb	DK604	SX		145	15.9			0		3		0		92		8.0		3.4		60.7	DK604	DeKalb
Golden Harvest	H2530	SX	134	148	16.4	16.6	2	0	3	3	0	0	90	92	7.3	7.7	3.4	3.4	61.4	61.1	H2530	Golden Harvest
*DeKalb	DK591	SX	140	155	16.5	16.5	0	0	5	4	0	0	93	94	7.7	7.9	3.4	3.3	60.9	60.9	DK591	*DeKalb
Bioseed	9498	SX		144	16.5			0		2		0		91		7.8		3.3		61.1	9498	Bioseed
*Pioneer	3394	SX	133	144	16.7	17.3	2	0	4	4	1	1	91	93	7.6	8.0	3.2	3.1	61.5	61.5	3394	*Pioneer
Pioneer	3489	SX		145	16.8			0		1		0		90		8.1		3.5		60.9	3489	Pioneer
*Pioneer	3417	SX	135	149	17.0	17.0	0	0	1	2	0	0	92	95	7.6	7.9	3.6	3.6	61.0	60.8	3417	*Pioneer
*Ciba	4494	SX	130	148	17.0	17.0	0	0	4	4	0	0	88	89	7.7	8.2	3.4	3.3	61.1	61.0	4494	*Ciba
Renze	6345	SX		152	17.0			1		3		0		95		7.8		3.4		60.7	6345	Renze
Cenex/Land O'Lake	674	SX		155	17.1			0		2		0		92		7.7		3.4		61.1	674	Cenex/Land O'Lake
DeKalb	DK626	SX		156	17.1			1		6		0		91		7.4		3.6		60.8	DK626	DeKalb
*Northrup King	N6330	SX	128	145	17.1	17.1	0	0	4	3	1	1	93	95	7.6	7.9	3.4	3.4	61.3	61.1	N6330	*Northrup King
Lynks	2719	SX		146	17.4			0		3		1		91		7.8		3.4		61.0	2719	Lynks
Ottilie	2468	SX		152	17.7			0		5		1		89		7.7		3.5		61.1	2468	Ottilie
Crows	494	SX	136	155	17.7	17.8	1	0	5	6	1	1	89	91	8.0	8.4	3.3	3.2	61.3	61.1	494	Crows
Renze	6395	SX		152	17.7			0		3		0		94		7.8		3.3		61.1	6395	Renze
Cargill	7557	SX		151	17.9			0		6		0		93		8.1		3.4		61.0	7557	Cargill
Crows	510	SX	131	147	18.1	18.1	0	0	4	5	0	0	89	90	7.5	7.8	3.5	3.5	61.2	61.0	510	Crows
Ottilie	2466	SX		153	18.2			0		2		0		94		7.3		3.4		61.4	2466	Ottilie
Stine	1145	SX		156	18.4			0		5		0		90		7.9		3.4		61.1	1145	Stine
M/W Genetics	G8445	SX		155	18.5			0		6		0		95		7.8		3.1		61.4	G8445	M/W Genetics
ICI Seeds	8400	SX		139	18.5			0		4		0		89		7.8		3.5		60.9	8400	ICI Seeds
Mellow Dent	7820	SX	129	148	18.5	18.8	0	0	6	5	1	1	88	91	7.5	7.9	3.3	3.2	61.3	61.1	7820	Mellow Dent
Bioseed	9550	SX		154	18.6			0		4		0		93		7.7		3.2		61.2	9550	Bioseed
NC+	5858	SX		148	18.6			0		3		1		94		8.1		3.2		61.1	5858	NC+
KSC/Challenger	9415	SX	133	152	18.6	18.4	1	0	6	6	0	0	95	97	7.6	7.9	3.3	3.2	61.4	61.2	9415	KSC/Challenger
Rainbow	3138	SX		149	18.6			0		4		0		95		7.7		3.1		61.4	3138	Rainbow
ISU	B73XB97	SX		155	18.7			8		6		1		93		7.7		3.6		60.9	B73XB97	ISU
Merschman	M3115	SX	130	148	18.7	18.9	1	0	6	5	1	1	90	91	7.5	7.7	3.3	3.2	61.3	61.2	M3115	Merschman
*Cargill	7877	SX	139	152	18.8	19.3	2	0	6	6	0	0	92	94	7.4	7.8	3.7	3.7	60.9	60.5	7877	*Cargill
*Pioneer	3279	SX	138	153	18.8	19.5	1	0	4	2	0	0	93	94	8.0	8.3	3.3	3.2	61.2	61.0	3279	*Pioneer
Ames Best	VIKE1161	SX		158	18.8			0		3		0		95		7.8		3.2		61.2	VIKE1161	Ames Best
Renze	6425	SX		154	18.8			0		3		0		91		7.8		3.4		60.9	6425	Renze
Pfister	3336	SX		153	18.8			0		5		0		92		8.1		3.3		61.0	3336	Pfister
Mark	MRK95117	SX		156	19.0			0		5		1		92		8.1		3.4		60.9	MRK95117	Mark
Middlekoop	M717	SX		154	19.1			1		5		0		90		7.9		3.3		61.3	M717	Middlekoop
*DeKalb	DK646	SX	141	162	19.1	19.3	1	0	4	4	0	0	89	92	7.4	7.7	3.5	3.5	61.2	60.9	DK646	*DeKalb
*Cargill	7697	SX	132	146	19.2	19.8	1	0	7	7	0	0	91	92	7.3	7.6	3.6	3.6	61.2	61.1	7697	*Cargill
Kruger	9417	SX	138	154	19.2	19.3	0	0	4	3	0	0	92	93	7.6	8.0	3.4	3.4	61.3	61.1	9417	Kruger
Northrup King	N7707	SX	136	157	19.5	19.9	1	0	2	3	0	0	91	93	8.0	8.3	3.5	3.4	60.9	60.7	N7707	Northrup King
Hill Seed	HSX1142	SX	130	144	19.5	19.8	0	0	3	2	0	0	90	90	7.9	8.3	3.5	3.4	61.0	60.8	HSX1142	Hill Seed
Cargill	7777	SX		164	19.6			1		5		0		95		7.8		3.4		61.1	7777	Cargill
Rainbow	2142	SX	132	152	19.7	19.6	0	0	5	5	1	1	90	91	8.2	8.6	3.4	3.3	60.9	60.7	2142	Rainbow
Asgrow	RX801	SX	137	153	19.8	19.7	0	0	4	3	0	0	91	93	7.5	7.9	3.5	3.4	61.2	61.0	RX801	Asgrow
*Cargill	7997	SX	140	153	19.9	20.7	1	0	3	4	0	0	91	93	7.4	7.8	3.5	3.4	61.3	61.0	7997	*Cargill
KSC/Challenger	9616	SX		152	20.0			0		3		0		94		7.8		3.5		60.9	9616	KSC/Challenger
Terra	TR1130	SX		158	20.2			0		3		1		92		7.8		3.5		60.9	TR1130	Terra
Rainbow	3161	SX		149	20.3			0		5		1		90		8.5		3.4		60.5	3161	Rainbow
SOI	9140	SX	127	146	20.4	20.3	1	0	3	3	0	0	88	89	7.9	8.3	3.5	3.3	61.0	60.9	9140	SOI
Merschman	M3117	SX	137	151	20.5	20.9	3	0	6	4	0	0	93	95	7.5	7.8	3.3	3.2	61.4	61.2	M3117	Merschman
Pioneer	3225	SX		151	20.6			0		5		1		90		7.8		3.1		61.6	3225	Pioneer
Mellow Dent	7810	SX		149	20.8			0		2		0		91		8.1		3.5		60.8	7810	Mellow Dent
Golden Harvest	H2641	SX	143	160	20.9	21.0	1	0	3	3	0	0	92	94	7.5	8.0	3.4	3.3	61.4	61.1	H2641	Golden Harvest
KSC/Challenger	9618	SX		155	20.9			0		3		1		88		8.1		3.4		60.8	9618	KSC/Challenger
*Wilson	1760	SX	141	161	21.1	21.1	0	0	4	3	1	1	89	90	8.0	8.4	3.3	3.3	61.0	60.8	1760	*Wilson
Crows	490	SX		153	21.1			0		5		2		87		8.2		3.2		60.9	490	Crows
*Asgrow	RX899	SX		149	21.1			0		3		0		94		8.1		3.2		61.2	RX899	*Asgrow
Bioseed	9600	SX		151	21.1			0		2		0		90		7.9		3.5		61.0	9600	Bioseed
Rainbow	3172	SX		156	21.2			0		3		0		94		7.8		3.4		61.0	3172	Rainbow
Cargill	8327	SX	138	155	21.2	21.2	1	0	4	3	1	0	92	94	7.5	7.8	3.5	3.5	61.2	60.9	8327	Cargill
M/W Genetics	G8775	SX	140	154	21.2	21.2	2	0	4	3	0	0	94	94	7.4	7.8	3.5	3.4	61.3	61.1	G8775	M/W Genetics
Crows	668	SX	138	156	21.3	21.4	2	0	4	4	1	0	91	93	7.5	7.8	3.5	3.5	61.0	60.8	668	Crows
Terra	TR1167	SX	133	148	21.3	21.4	1	0	3	2	0	0	90	91	7.6	7.9	3.5	3.4	61.2	61.0	TR1167	Terra
Pfister	3965	SX	135	153	21.4	21.0	0	0	3	3	1	0	90	90	7.7	8.0	3.4	3.4	61.2	61.1	3965	Pfister
Merschman	M3120	SX	138	154	21.5	21.7	2	0	4	4	0	0	93	95	7.4	7.7	3.6	3.5	61.2	61.1	M3120	Merschman
Pioneer	3162	SX	136	152	21.6	21.9	1	0	4	4	0	0	92	94	7.7	8.0	3.3	3.2	61.5	61.5	3162	Pioneer
ICI Seeds	8285	SX		151	21.6			0		3		1		95		7.8		3.4		61.2	8285	ICI Seeds
Average of all entries			135.2	151.8	19.1	19.5	0.9	0.2	4.1	3.7	0.4	0.3	91.0	92.4	7.6	7.9	3.4	3.4	61.2	61.0	Average of all entries	
Average of widely grown entries			135.9	151.1	18.3	18.6	0.7	0.1	4.2	3.7	0.4	0.3	91.1	93.2	7.6	8.0	3.5	3.4	61.2	61.0	Average of widely grown entries	

* = Widely grown variety entered by Iowa State University. SX = Single Cross. MSX = Modified Single Cross. 3X = 3-Way Cross. 4X = 4-Way Cross. SXB = Blend of Single Crosses.

Table 1. Average performance of varieties tested in District 7. 26,500 planting rate. LSD for 1995 yield in bushels is 9; for 1994 is 11; and for 1993 is 9. 1995 protein pct LSD = 0.3. 1995 oil pct LSD = 0.1. 1995 starch pct LSD = 0.4.

			Yield Bu/A			Moisture Pct			Root Ldg Pct			Stalk Ldg Pct			Drop Ear Pct			Stand Pct			Protein Pct			Oil Pct			Starch Pct				
Brand	Variety	Cross	1993	1994	1995	1995	1994	1993	1995	1994	1993	1995	1994	1993	1995	1994	1993	1995	1994	1993	1995	1994	1993	1995	1994	1993	1995	1994	1993	Variety	Brand
*DeKalb	DK580	SX		172	121	13.3	17.4		0	0		3	2		0	0		90	100		8.1	8.1		3.0	3.1		61.1	61.4		DK580	*DeKalb
Hill Seed	HSX1125	SX			109	13.4			0			5			0			84			8.3			3.2			60.6			HSX1125	Hill Seed
Cargill	5677	SX			124	13.4			0			8			0			89			8.3			3.0			61.1			5677	Cargill
DeKalb	DK566	SX			119	13.5			0			5			0			90			8.3			3.3			60.6			DK566	DeKalb
Cenex/Land O'Lake	600	SX			115	13.5			0			6			1			87			9.3			3.5			59.6			600	Cenex/Land O'Lake
Bioseed	9530	SX			132	13.5			1			5			1			91			8.1			3.3			60.4			9530	Bioseed
Golden Harvest	H2502	SX			118	13.5			0			6			1			88			8.3			3.3			60.7			H2502	Golden Harvest
DeKalb	DK604	SX		157	132	13.6	18.1		0	0		3	3		1	0		90	94		8.3	7.7		3.3	3.5		60.2	61.1		DK604	DeKalb
DeKalb	DK616	SX			125	13.7			0			2			0			94			8.6			3.5			60.2			DK616	DeKalb
Golden Harvest	H2530	SX	108	172	123	13.8	19.0	17.0	0	0	5	4	1	3	0	0	0	90	94	88	8.2	7.3	6.5	3.3	3.5	3.5	60.7	61.5	62.0	H2530	Golden Harvest
Kruger	9613	SX			124	13.9			1			13			1			90			7.8			3.1			61.3			9613	Kruger
*DeKalb	DK591	SX	108	182	129	13.9	19.0	16.6	0	0	0	4	3	6	0	0	0	92	97	90	8.4	7.5	7.3	3.4	3.3	3.6	60.4	61.5	60.9	DK591	*DeKalb
Stine	9704	SX			124	14.2			0			6			0			86			8.4			3.8			59.6			9704	Stine
AG+	3209	SX			117	14.2			0			7			1			87			8.0			3.6			60.3			3209	AG+
*Pioneer	3417	SX	106	176	123	14.4	19.5	17.2	0	0	0	1	2	1	1	0	0	94	97	85	8.4	7.4	6.9	3.5	3.7	3.7	60.6	61.0	61.5	3417	*Pioneer
Fontanelle	5525	SX			130	14.5			0			6			0			89			8.3			3.6			60.1			5525	Fontanelle
Northrup King	N6223	SX			129	14.5			0			3			1			91			8.6			3.6			60.3			N6223	Northrup King
Mycogen	7050CB	SX			128	14.6			1			3			0			81			8.9			3.6			60.1			7050CB	Mycogen
Middlekoop	M814	SX			130	14.6			0			4			1			88			8.2			3.5			60.3			M814	Middlekoop
Bioseed	9498	SX		164	124	14.6	18.5		0	0		3	2		1	0		91	90		8.0	7.7		3.4	3.3		60.8	61.4		9498	Bioseed
KSC/Challenger	EX114	SX			121	14.6			0			6			1			91			8.1			3.4			60.3			EX114	KSC/Challenger
*Pioneer	3394	SX	109	165	123	14.7	18.6	18.5	0	0	6	5	3	4	1	0	1	89	97	86	8.1	7.9	6.9	3.1	3.0	3.5	61.2	61.9	61.5	3394	*Pioneer
DeKalb	DK626	SX		181	132	14.8	19.4		0	1		8	4		0	0		85	98		8.0	6.8		3.6	3.6		60.2	61.3		DK626	DeKalb
Golden Harvest	H2538	SX			128	14.8			0			2			0			91			7.7			3.3			60.7			H2538	Golden Harvest
*Ciba	4494	SX	95	164	131	14.8	19.2	17.0	0	0	1	4	4	4	1	0	1	85	93	87	8.4	8.0	6.8	3.4	3.2	3.6	60.3	61.6	61.5	4494	*Ciba
Crows	510	SX	101	164	130	14.8	21.3	18.2	0	0	1	8	2	3	0	0	1	90	89	87	8.3	7.2	6.9	3.4	3.5	3.6	60.5	61.6	61.6	510	Crows
Desoy	9612	SX			118	14.9			0			1			0			89			8.1			3.5			60.6			9612	Desoy
Lynks	2719	SX		167	125	14.9	19.9		0	0		5	1		1	0		87	95		8.2	7.4		3.5	3.3		60.4	61.6		2719	Lynks
SOI	9115	SX			131	14.9			0			2			0			91			7.7			3.4			60.6			9115	SOI
Hill Seed	HSX1105	SX			137	14.9			1			2			0			89			8.1			3.3			60.5			HSX1105	Hill Seed
Stine	9702	SX			114	14.9			0			4			0			79			8.3			3.2			60.5			9702	Stine
Pioneer	3489	SX		163	126	15.0	18.6		0	0		2	1		0	0		87	94		8.5	7.7		3.4	3.5		60.4	61.4		3489	Pioneer
Fontanelle	5335	SX			138	15.0			0			2			0			87			7.9			3.1			60.8			5335	Fontanelle
Asgrow	RX770	SX			137	15.1			0			3			1			91			8.2			3.2			61.0			RX770	Asgrow
Renze	6345	SX		166	137	15.1	19.0		1	0		3	3		0	0		93	97		8.1	7.5		3.2	3.6		60.7	60.7		6345	Renze
Cenex/Land O'Lake	674	SX		172	138	15.1	19.0		0	0		2	3		0	0		87	97		7.9	7.4		3.2	3.5		60.8	61.3		674	Cenex/Land O'Lake
Pioneer	3335	SX			136	15.1			0			9			0			96			8.2			3.2			61.0			3335	Pioneer
Kruger	9514A	SX			131	15.1			0			7			1			91			8.0			3.2			61.0			9514A	Kruger
Crows	494	SX	98	177	132	15.2	20.3	17.8	0	0	2	8	4	5	1	0	1	86	97	86	8.7	8.1	7.1	3.3	3.0	3.5	60.6	61.6	61.7	494	Crows
*Northrup King	N6330	SX	95	163	126	15.2	19.1	17.0	0	0	1	4	3	7	1	0	1	91	98	88	8.4	7.4	7.0	3.4	3.4	3.5	60.7	61.4	61.7	N6330	*Northrup King
Cargill	7557	SX		182	120	15.2	20.7		0	0		7	4		0	0		87	99		8.7	7.6		3.4	3.5		60.6	61.5		7557	Cargill
Kruger	9614	SX			128	15.2			2			4			1			88			7.9			3.3			60.5			9614	Kruger
Pfister	2650	SX			133	15.3			1			2			1			87			8.0			3.2			60.8			2650	Pfister
Mark	MRK97113	SX			127	15.3			0			4			0			87			7.9			3.4			60.7			MRK97113	Mark
Agripro	AP9565	SX			137	15.4			0			3			0			90			7.8			3.2			60.9			AP9565	Agripro
Crows	496	SX			138	15.4			0			2			1			90			7.9			3.5			60.3			496	Crows
CFS	7725	SX			134	15.4			1			3			0			86			8.0			3.4			60.4			7725	CFS
Wilson	E5064	SX			129	15.5			0			3			1			87			7.9			3.2			60.9			E5064	Wilson
Northrup King	N7590	SX			131	15.5			0			8			1			84			8.5			3.4			60.5			N7590	Northrup King
NC+	5252	SX			130	15.5			0			11			1			86			8.1			3.5			60.5			5252	NC+
NC+	5858	SX		170	126	15.5	21.7		0	0		5	2		1	0		90	98		8.4	7.8		3.2	3.1		60.7	61.5		5858	NC+
Payco	915	SX			126	15.5			0			1			0			89			8.2			3.3			60.7			915	Payco
Northrup King	N7070	SX			134	15.6			0			4			0			86			7.7			3.2			61.5			N7070	Northrup King
Cenex/Land O'Lake	661	SX			132	15.6			1			4			1			85			8.0			3.3			60.8			661	Cenex/Land O'Lake
Lynks	2725	SX			130	15.6			0			0			0			77			8.1			3.1			60.9			2725	Lynks
Golden Harvest	H2547	SX			140	15.6			1			1			0			85			7.9			3.2			61.0			H2547	Golden Harvest
Renze	6386	SX			139	15.7			0			2			0			87			7.8			3.2			61.0			6386	Renze
Asgrow	RX789	SX			129	15.7			0			3			1			83			8.4			3.5			60.1			RX789	Asgrow
Wilson	1690	SX			131	15.7			1			4			1			92			8.0			3.4			60.7			1690	Wilson
Bioseed	9550	SX		175	132	15.7	21.4		0	0		5	4		1	0		88	99		7.7	7.6		3.2	3.3		61.1	61.4		9550	Bioseed
Mycogen	7460	SX			132	15.7			0			7			1			85			8.3			3.4			60.5			7460	Mycogen
Mellow Dent	7727	SX			142	15.8			1			2			0			89			7.8			3.3			60.9			7727	Mellow Dent
Bioseed	9520	SX			116	15.8			0			3			1			90			8.4			3.2			60.9			9520	Bioseed
SOI	9126	SX			133	15.8			0			1			0			88			8.1			3.2			60.9			9126	SOI
AG+	3212	SX			130	15.8			0			2			0			87			8.3			3.5			60.2			3212	AG+
Middlekoop	M816	SX			124	15.8			0			4			1			87			8.0			3.4			60.8			M816	Middlekoop
Rainbow	X1155	SX			133	15.8			0			9			2			88			8.3			3.4			60.8			X1155	Rainbow
LG Seeds	LG-2632	SX			132	15.8			0			7			0			82			8.5			3.4			60.5			LG-2632	LG Seeds
Rainbow	3138	SX		173	126	15.8	21.4		0	0		5	3		0	1		90	100		7.8	7.7		3.1	3.1		61.2	61.7		3138	Rainbow
Pfister	3336	SX		175	131	15.9	21.7		0	0		9	2		0	0		87	97		8.3	7.9		3.4	3.2		60.6	61.4		3336	Pfister
M/W Genetics	G8445	SX		173	137	15.9	21.1		0	0		7	5		1	0		89	100		8.0	7.6		3.2	3.0		61.1	61.7		G8445	M/W Genetics
Ottilie	2468	SX		172	133	15.9	19.5		0	0		6	4		1	0		86	93		7.9	7.4		3.5	3.4		60.7	61.6		2468	Ottilie
Hy-Vigor	7050	SX			137	15.9			0			3			1			90			8.4			3.4			60.4			7050	Hy-Vigor
Premium	P234	SX			132	15.9			0			5			1			88			7.7			3.2			61.1			P234	Premium
Ottilie	2467	SX			135	15.9			0			3			0			87			7.8			3.1			61.2			2467	Ottilie
Kruger	9415A	SX			127	16.0			0			3			0			91			7.8			3.4			60.9			9415A	Kruger
Mark	MRK95117	SX		178	135	16.0	22.0		0	0		9	2		1	0		91	93		8.3	7.9		3.4	3.3		60.5	61.3		MRK95117	Mark
Renze	6395	SX		168	135	16.0	19.5		0	0		3	3		0	0		92	96		8.0	7.5		3.5	3.2		60.6	61.6		6395	Renze
Middlekoop	M717	SX		173	135	16.0	22.1		0	1		7	3		0	0		86	95		8.2	7.7		3.4	3.2		60.9	61.7		M717	Middlekoop
Merschman	M5115	SX			116	16.0			0			3			1			84			8.1			3.6			60.9			M5115	Merschman
Golden Harvest	H2581	SX			143	16.0			1			3			0			90			7.8			3.4			60.7			H2581	Golden Harvest
KSC/Challenger	9415	SX	96	177	127	16.0	21.2	18.1	0	0	4	7	4	7	1	0	0	93	100	91	8.0	7.8	6.9	3.3	3.1	3.4	60.8	61.7	61.6	9415	KSC/Challenger
Renze	6370	SX			133	16.0			0			6			0			88			8.0			3.2			60.9			6370	Renze
Su Cros Co	4414	SX			125	16.1			0			2			0			85			8.5			3.3			60.6			4414	Su Cros Co
Stine	1145	SX		176	136	16.1	20.8		0	0		7	2		1	0		85	94		8.1	7.6		3.4	3.3		60.6	61.6		1145	Stine
ISU	B73XB97	SX		182	128	16.1	21.4		12	3		10	3		1	0		92	93		7.9	7.6		3.7	3.5		60.4	61.3		B73XB97	ISU
Merschman	M3115	SX	94	163	133	16.1	21.4	19.1	0	0	3	7	3	8	1	1	1	87	95	87	8.0	7.4	7.1	3.3	3.2	3.4	60.9	61.5	61.5	M3115	Merschman
Mark	MRK96116	SX			133	16.1			0			3			0			88			8.1			3.4			60.4			MRK96116	Mark
Agripro	HY9610	SX			133	16.1			0			7			2			86			8.3			3.4			60.5			HY9610	Agripro
Mellow Dent	7820	SX	92	163	132	16.1	21.0	19.3	0	0	1	7	4	7	1	1	1	87	94	82	8.0	7.8	6.8	3.3	3.1	3.4	60.6	61.6	61.8	7820	Mellow Dent
Renze	6425	SX		171	138	16.1	21.4		0	0		5	1		0	0		91	91		8.1	7.6		3.5	3.3		60.3	61.4		6425	Renze
Mark	MRK96113	SX			124	16.1			0			3			0			85			7.8			3.5			60.9			MRK96113	Mark
Hill Seed	EX146	SX			135	16.1			0			4			0			88			8.1			3.5			60.3			EX146	Hill Seed
Ottilie	2466	SX		173	132	16.1	20.3		0	0		2	2		0	0		89	100		7.5	7.0		3.4	3.5		61.3	61.6		2466	Ottilie
Pioneer	3375	SX			123	16.2			0			5			2			87			8.7			3.2			60.9			3375	Pioneer
*Cargill	7877	SX	112	179	125	16.2	21.3	20.4	0	0	6	10	3	6	0	0	0	88	100	87	8.3	7.3	6.7	3.5	3.8	3.7	60.5	60.6	61.5	7877	*Cargill
Fontanelle	5325	SX			132	16.2			0			2			0			86			7.8			3.5			60.9			5325	Fontanelle
Ames Best	VIKE1161	SX		171	145	16.2	21.3		0	0		4	3		0	0		91	98		7.9	7.6		3.2	3.3		61.0	61.4		VIKE1161	Ames Best
ISU	B73XMO17	SX			118	16.2			1			6			1			90			7.7			3.4			60.5			B73XMO17	ISU
M/W Genetics	G8440	SX			137	16.2			0			7			0			84			7.9			3.3			61.0			G8440	M/W Genetics
NC+	5445	SX			133	16.2			0			5			0			85			8.2			3.5			60.2			5445	NC+
ICI Seeds	8330	SX			124	16.3			0			2			0			90			8.1			3.4			60.8			8330	ICI Seeds
Ames Best	AB1163	SX			134	16.3			0			5			0			88			8.2			3.5			60.4			AB1163	Ames Best
Cenex/Land O'Lake	727	SX			116	16.3			0			3			0			73			8.1			3.5			60.6			727	Cenex/Land O'Lake
Lynks	2815	SX			131	16.3			0			4			0			85			8.3			3.5			60.3			2815	Lynks
Lewis	5584	SX			132	16.3			0			2			1			84			8.1			3.5			60.4			5584	Lewis
Ciba	4545	SX			128	16.3			0			6			0			91			8.2			3.4			60.6			4545	Ciba
*Cargill	7697	SX	105	167	125	16.3	22.0	21.2	0	0	2	9	5	8	1	0	0	89	96	88	7.7	7.5	6.7	3.6	3.5	3.7	60.8	61.4	61.5	7697	*Cargill
Agripro	AP619	SX			136	16.3			0			3			1			89			8.3			3.5			60.4			AP619	Agripro
Premium	P266	SX			120	16.4			0			7			3			91			8.2			3.4			60.5			P266	Premium
KSC/Challenger	9616	SX		174	131	16.4	23.6		0	0		4	2		1	0		87	100		8.0	7.6		3.5	3.4		60.5	61.4		9616	KSC/Challenger
Payco	902	SX			140	16.4			0			5			1			92			7.9			3.3			60.9			902	Payco
Hawkeye Hybrid	8179	SX			130	16.4			0			6			0			91			8.1			3.5			60.3			8179	Hawkeye Hybrid
Jacobsen	JS69	SX			140	16.4			0			8			0			87			7.9			3.3			60.9			JS69	Jacobsen
Cargill	X7507	SX			138	16.5			0			5			0			83			8.2			3.4			60.6			X7507	Cargill
Kruger	9417	SX	106	173	136	16.5	21.9	19.6	0	0	1	3	2	6	1	0	1	87	100	89	8.1	7.8	7.0	3.4	3.3	3.5	60.8	61.5	61.7	9417	Kruger
Crows	685	SX			129	16.6			0			7			1			88			8.1			3.4			60.5			685	Crows
ICI Seeds	8400	SX		154	125	16.6	20.5		0	0		7	2		0	0		87	90		8.1	7.5		3.4	3.5		60.5	61.3		8400	ICI Seeds
*Cargill	7997	SX	112	185	122	16.6	23.3	22.2	0	0	1	6	1	2	0	0	0	87	100	88	7.8	7.8	6.6	3.5	3.4	3.6	60.9	61.2	61.9	7997	*Cargill
Renze	6416	SX			146	16.6			1			2			0			92			7.8			3.2			61.1			6416	Renze
Rainbow	X1165	SX			127	16.6			0			5			1			83			8.3			3.5			60.4			X1165	Rainbow
Cargill	6997	SX			136	16.6			0			2			0			92			7.9			3.3			60.8			6997	Cargill
Agripro	AP9707	SX			127	16.6			0			8			1			81			8.1			3.4			60.5			AP9707	Agripro
Stine	9801	SX			131	16.7			5			4			0			86			7.7			3.5			60.5			9801	Stine
Lewis	6294	SX			130	16.7			0			8			1			88			8.2			3.5			60.4			6294	Lewis
Mellow Dent	7805	SX			140	16.8			0			2			0			90			7.9			3.3			61.1			7805	Mellow Dent
ISU	B97XB105	SX			114	16.8			7			4			1			91			7.9			3.8			60.4			B97XB105	ISU
Mark	MRK96114	SX			134	16.8			1			3			1			87			8.0			3.4			60.7			MRK96114	Mark
Cargill	7777	SX		188	141	16.8	22.3		0	3		9	1		0	0		90	100		7.9	7.7		3.4	3.4		60.8	61.4		7777	Cargill
*DeKalb	DK646	SX	98	188	136	16.9	21.3	19.8	0	0	3	4	4	3	0	0	0	85	100	83	7.9	7.5	6.8	3.5	3.5	3.6	60.4	61.3	61.9	DK646	*DeKalb
*Pioneer	3279	SX	107	171	135	17.0	20.5	21.0	0	0	2	2	3	6	0	0	1	88	100	90	8.4	8.2	7.3	3.2	3.2	3.5	61.0	61.1	61.5	3279	*Pioneer
ICI Seeds	8476	SX			131	17.0			0			6			3			85			8.0			3.3			61.0			8476	ICI Seeds
Hill Seed	HSX1142	SX	101	176	112	17.1	22.0	20.4	0	0	0	2	3	4	0	0	0	80	100	89	8.8	7.9	7.1	3.5	3.3	3.7	60.2	61.4	61.3	HSX1142	Hill Seed
Kruger	9616B	SX			145	17.1			0			1			0			89			7.8			3.3			61.0			9616B	Kruger
Northrup King	N7707	SX	94	176	139	17.1	21.9	20.6	0	0	3	3	3	1	0	0	1	90	97	87	8.6	8.1	7.2	3.5	3.3	3.7	60.3	61.0	61.3	N7707	Northrup King
Merschman	M5116	SX			132	17.1			7			4			0			87			7.9			3.5			60.6			M5116	Merschman
Hawkeye Hybrid	SX62	SX			140	17.1			1			3			1			95			8.1			3.3			60.8			SX62	Hawkeye Hybrid
Mycogen	7250CB	SX			141	17.2			0			3			0			84			8.1			3.7			60.4			7250CB	Mycogen
Asgrow	RX801	SX	106	175	131	17.2	22.4	19.4	0	0	1	6	0	7	0	0	1	88	98	88	8.2	7.5	6.8	3.5	3.4	3.7	60.4	61.6	61.5	RX801	Asgrow
Asgrow	RX893	SX			123	17.3			0			5			0			83			8.0			3.7			60.0			RX893	Asgrow
Terra	TR1130	SX		177	138	17.3	23.1		0	0		4	1		1	0		89	95		8.0	7.7		3.4	3.5		60.8	61.0		TR1130	Terra
Pioneer	3225	SX		179	123	17.4	23.9		0	0		8	2		1	0		86	94		8.1	7.5		3.2	3.1		61.2	61.9		3225	Pioneer
Cenex/Land O'Lake	787	SX			128	17.4			0			2			1			81			8.0			3.4			60.9			787	Cenex/Land O'Lake
CFS	W7779	SX			131	17.5			0			5			0			85			8.5			3.6			60.5			W7779	CFS
Pfister	3976	SX			138	17.6			0			5			0			89			8.4			3.5			60.5			3976	Pfister
KSC/Challenger	9315BPT	SX			128	17.7			0			5			0			92			8.9			3.8			59.9			9315BPT	KSC/Challenger
Ottilie	2482X	SX			139	17.8			0			4			0			88			7.9			3.5			60.5			2482X	Ottilie
*Asgrow	RX899	SX		172	127	17.9	24.3		0	0		5	1		1	0		89	98		8.2	8.1		3.4	2.9		60.4	62.0		RX899	*Asgrow
Pfister	3965	SX	99	175	131	17.9	24.9	20.1	0	0	1	4	1	5	1	0	1	86	94	90	8.1	7.9	7.2	3.5	3.2	3.6	60.4	61.7	61.4	3965	Pfister
Fontanelle	5624	SX			139	17.9			0			4			0			87			8.1			3.4			60.7			5624	Fontanelle
Rainbow	2142	SX	92	170	135	17.9	21.5	19.4	0	0	1	6	4	5	1	0	1	84	99	86	8.9	8.2	7.4	3.3	3.4	3.5	60.5	60.9	61.2	2142	Rainbow
Rainbow	3161	SX		172	126	17.9	22.7		0	0		6	3		2	0		86	94		8.8	8.1		3.5	3.4		60.1	60.9		3161	Rainbow
*Northrup King	S7751	SX			128	17.9			0			4			0			87			8.2			3.4			60.6			S7751	*Northrup King
SOI	9140	SX	89	163	129	18.1	22.7	20.2	0	0	3	4	2	4	0	0	1	88	90	85	8.4	8.1	7.2	3.4	3.3	3.7	60.4	61.3	61.3	9140	SOI
Merschman	M3117	SX	108	176	126	18.2	22.8	21.6	0	0	8	6	2	8	0	0	1	91	99	90	7.8	7.9	6.7	3.3	3.2	3.4	60.9	61.5	61.9	M3117	Merschman
Pioneer	3217	SX			135	18.3			0			4			2			91			8.4			3.5			60.6			3217	Pioneer
ISU	B97XB104	SX			132	18.3			4			12			1			93			7.7			3.5			61.0			B97XB104	ISU
Pioneer	3162	SX	104	179	126	18.3	24.8	22.7	0	0	2	5	3	4	0	0	0	91	98	89	8.2	7.8	7.2	3.4	3.0	3.6	61.0	62.1	61.5	3162	Pioneer
Cargill	8327	SX	104	177	133	18.4	24.0	21.3	0	0	4	4	2	6	0	0	2	90	97	89	7.9	7.8	6.9	3.5	3.5	3.5	60.7	61.2	61.7	8327	Cargill
Rainbow	3172	SX		178	133	18.5	23.9		0	1		6	1		0	0		90	98		7.7	7.9		3.5	3.2		60.5	61.4		3172	Rainbow
M/W Genetics	G8775	SX	112	175	134	18.5	24.0	21.0	0	0	5	4	2	6	0	0	1	89	100	93	7.9	7.7	6.7	3.6	3.2	3.6	60.6	61.6	61.8	G8775	M/W Genetics
LG Seeds	LG-2705	SX			137	18.5			0			4			0			86			8.0			3.5			60.5			LG-2705	LG Seeds
Golden Harvest	H2641	SX	109	180	140	18.5	23.3	21.2	0	0	3	5	1	4	0	0	1	91	97	89	7.9	8.0	6.6	3.5	3.2	3.6	60.8	61.4	62.0	H2641	Golden Harvest
Bioseed	9600	SX		171	132	18.5	23.7		0	0		3	1		1	0		83	97		8.1	7.7		3.6	3.3		60.3	61.6		9600	Bioseed
Mellow Dent	7810	SX		169	129	18.7	22.9		0	0		3	2		1	0		89	93		8.2	8.0		3.6	3.5		60.6	61.0		7810	Mellow Dent
Ames Best	AB1171	SX			136	18.7			0			2			1			91			7.8			3.5			60.8			AB1171	Ames Best
ICI Seeds	8285	SX		172	130	18.8	24.5		0	0		4	1		1	0		90	100		7.7	7.9		3.5	3.3		61.0	61.4		8285	ICI Seeds
Agripro	HS9843	SX			131	18.8			0			3			0			91			7.6			3.4			61.0			HS9843	Agripro
Hill Seed	HSX1155	SX			138	18.8			0			2			0			83			7.9			3.4			61.1			HSX1155	Hill Seed
Terra	TR1167	SX	103	165	130	18.8	23.8	21.5	0	0	3	3	1	6	0	0	1	87	96	86	8.0	7.9	7.0	3.5	3.3	3.6	60.5	61.5	61.6	TR1167	Terra
KSC/Challenger	9618	SX		172	139	18.9	23.0		0	0		3	3		1	0		86	91		8.1	8.1		3.5	3.5		60.5	61.1		9618	KSC/Challenger
Crows	668	SX	102	180	132	18.9	23.7	21.5	0	0	5	7	1	5	0	0	2	89	98	87	8.0	7.7	6.9	3.6	3.4	3.6	60.2	61.3	61.6	668	Crows
Middlekoop	M817	SX			140	18.9			0			2			0			87			8.1			3.5			60.6			M817	Middlekoop
Merschman	M5117	SX			134	19.0			0			6			0			87			7.9			3.3			60.9			M5117	Merschman
Merschman	M3120	SX	104	173	136	19.0	23.9	22.1	0	0	6	6	2	3	0	0	1	91	99	89	7.7	7.7	6.9	3.6	3.4	3.7	60.6	61.5	61.5	M3120	Merschman
Crows	490	SX		173	134	19.1	23.1		0	0		7	2		3	0		87	86		8.2	8.2		3.1	3.3		61.1	60.8		490	Crows
*Lynks	2812	SX			137	19.4			0			4			2			87			8.6			3.3			60.8			2812	*Lynks
*Wilson	1760	SX	101	182	140	19.5	22.7	21.1	0	0	1	4	2	6	1	0	2	85	96	87	8.6	8.2	7.3	3.2	3.4	3.4	60.8	60.8	61.4	1760	*Wilson
Ottilie	2488	SX			135	19.6			0			3			0			83			8.2			3.6			60.5			2488	Ottilie
KSC/Challenger	EX116	SX			118	20.9			0			9			0			91			8.2			3.7			60.4			EX116	KSC/Challenger
Average of all entries			102.1	172.8	130.6	16.3	21.6	19.8	0.3	0.2	2.6	4.6	2.3	5.0	0.5	0.1	0.7	87.8	96.3	87.6	8.1	7.7	7.0	3.4	3.3	3.6	60.6	61.4	61.6	Average of all entries	
Average of widely grown entries			104.4	174.3	128.5	16.3	20.6	19.3	0.0	0.1	2.0	4.5	2.8	4.8	0.6	0.0	0.7	88.3	97.9	87.2	8.2	7.8	6.9	3.4	3.3	3.6	60.7	61.3	61.5	Average of widely grown entries	

* = Widely grown variety entered by Iowa State University. SX = Single Cross. MSX = Modified Single Cross. 3X = 3-Way Cross. 4X = 4-Way Cross. SXB = Blend of Single Crosses.

District 7

Designations Identifying Brands in the Yield Test

AG+ .... AG+ Seeds Co., Spencer, IA 51301
AGRIPRO .... Agripro Seeds, Ames, IA 50010
AMES BEST .... Ames Best Hybrids, Ames, IA 50010
*ASGROW .... Asgrow Seed Company, Des Moines, IA 50032
BIOSEED .... Bioseed Genetics USA, Inc., Ankeny, IA 50021
*CARGILL .... Cargill Hybrid Seeds, Minneapolis, MN 55440
CENEX/LAND O'LAKE .... Cenex/Land O'Lakes, St. Paul, MN 55164
CFS .... Custom Farm Seed, Momence, IL 60954
*CIBA .... CIBA Seeds, Greensboro, NC 27419
CROWS .... Crow's Hybrid Corn Co., Milford, IL 60953
*DEKALB .... DeKalb Genetics Corp., DeKalb, IL 60115
DESOY .... Dennis Ewing Seed Farm, Ames, IA 50014
FONTANELLE .... Fontanelle Hybrids, Nickerson, NE 68044
GOLDEN HARVEST .... The J. C. Robinson Seed Co., Waterloo, NE 68069
HAWKEYE HYBRID .... Hawkeye Hybrids, Inc., Pella, IA 50219
HILL SEED .... Hill Seed Co., Ellsworth, IA 50075
HY-VIGOR .... Hy-Vigor Seeds, Inc., Paullina, IA 51046
ICI SEEDS .... ICI Seeds, Slater, IA 50244
ISU .... Corn Breeding, Iowa State University, Ames, IA 50011
JACOBSEN .... Jacobsen Hybrid Corn Co., Lake View, IA 51450
KRUGER .... Kruger Seed Company, Dike, IA 50624
KSC/CHALLENGER .... Challenger Seed Co., Dike, IA 50624
LEWIS .... Lewis Hybrids, Inc., Ursa, IL 62376
LG SEEDS .... LG Seeds, Mt. Pleasant, IA 52641
*LYNKS .... Lynks Seeds, Marshalltown, IA 50158
MARK .... Mark Seed Co., Perry, IA 50220
MELLOW DENT .... Mellow Dent Seeds, Inc., Alta, IA 51002
MERSCHMAN .... Merschman Seeds, West Point, IA 52656
MIDDLEKOOP .... Middlekoop Seed Corn, Inc., Packwood, IA 52580
M/W GENETICS .... Midwest Seed Genetics, Carroll, IA 51401
MYCOGEN .... Mycogen Plant Sciences, Prescott, WI 54021
NC+ .... NC+ Hybrids, Lincoln, NE 68504
*NORTHRUP KING .... Northrup King Co., Ames, IA 50010
OTTILIE .... Ottilie Seed Farms, Marshalltown, IA 50158
PAYCO .... Interstate Payco Seed Co., West Fargo, ND 58078
PFISTER .... Pfister Hybrid Corn Co., El Paso, IL 61738
*PIONEER .... Pioneer Hi-Bred International, Inc., Ankeny, IA 50021
PREMIUM .... Premium Seed, Inc., Berwick, IL 61417
RAINBOW .... Rainbow Seed, Oskaloosa, IA 52577
RENZE .... Renze Hybrids, Inc., Carroll, IA 51401
SOI .... Sand Seed Service, Inc., Marcus, IA 51035
STINE .... Stine Seed Co., Adel, IA 50003
SU CROS CO .... Super Cross Hybrids, Manilla, IA 51454
TERRA .... Terra International, Inc., Sioux City, IA 51102
*WILSON .... Wilson Seeds, Inc., Harlan, IA 51537

*Companies with one or more widely grown entries made by Iowa State University.

The 1995 Iowa Corn Yield Test Computer Diskette Order Form

Iowa Corn Yield Test results are published each year to help farmers select corn hybrids. Since 1987 a computer version has been available that includes the information in the written reports and a program to calculate an economic return value for each hybrid based on farmer supplied expected corn price, final moisture, and drying and shrink costs. These inputs can easily be changed and the computer will calculate new economic return values for all hybrids. These values provide information on whether full season hybrids produce enough extra yield to compensate for drying costs. The computer program also can sort the hybrids by yield, moisture, adjusted economic value, root lodging, stalk lodging, dropped ears, protein, oil, starch, or brand.

For more information, call Extension Software Service at 515-294-8658. Or, if you want to order the program, please complete, cut out, and return the order form in this report.

Grain moistures shown in Tables 1 and 2 are indications of maturity and natural drying rate. Maturity of varieties entered generally ranged from short to full season. Yield comparisons should be made among varieties of similar maturity.

It is important to select varieties having stable performance over a range of environmental conditions. High yields for two or more consecutive years indicate stable performance. Supplemental yield and agronomic information about specific varieties may be obtained from seed corn dealers, crop consultants, and from neighbors who have grown these varieties.

The protein, oil, and starch percentage data (Tables 1 and 2) are quality traits important to different end-users of corn. For feed, protein is of primary interest; for wet-mill processing (ethanol and sweeteners), oil and starch content are important. Several firms have begun testing these characteristics on an exploratory basis. In 1995, a network of 15 Iowa grain elevators acquired near-infrared equipment and tested inbound corn at their facilities.

Whole-grain near-infrared equipment measures composition of unground corn kernels in 1 to 1.5 minutes per sample. They measure moisture simultaneously with composition. Using these instruments, country elevators can test and segregate grain as it is received. Obviously all compositional factors cannot be high in the same hybrid. The grain market is exploring segmentation (identity preservation)—the production and marketing of certain hybrids for specific uses. This is an important change from the generic commodity approach now used.

The economic impact of compositional factors can be significant. Corn protein trades off with other protein sources in many feed rations. At $200 per ton for 44 percent protein soybean meal, the value of a 1 percent increase (e.g. from 8 percent to 9 percent) in corn protein is about 12 cents per bushel of corn. Likewise, an additional percent of oil yields about 14 cents per bushel in increased oil output in a wet processing plant or when substituted for white grease in feed rations. The additional ethanol or sweetener from an extra percent of starch provides 8 to 10 cents per bushel more revenue. Producers feeding livestock are in the best position to capture immediate benefits from these composition data. Country elevators with feed mills also have the ability to capitalize on increased protein in corn. The Iowa Corn Growers Association has prepared a publication to aid growers in using the nutrient data in the Iowa Corn Yield Test Reports: *Nutrient Content and Feeding Value of Iowa Corn,* Iowa Corn Growers Association, Des Moines, Iowa 50265.

Hybrids with similar yields and agronomic characteristics may not be identical in corn protein. Therefore, feed costs can be reduced by selecting higher protein hybrids from a group with similar yield potential. Weather and soil conditions affect composition, but the relative ranking of hybrids does not change greatly. A higher protein hybrid will be higher than average regardless of environmental conditions that raise or lower the averages. The protein percentages reported are measures of crude protein and may not give an accurate indication of feed value if feed rations are balanced on individual amino acids rather than crude protein content.

Order Form: Iowa Corn Yield Test Hybrid Selection Program

Please send me computer diskettes of the following districts of the Iowa Corn Yield Test Results.

Year:_____
District 1 ☐ District 2 ☐ District 3 ☐ District 4 ☐
District 5 ☐ District 6 ☐ District 7 ☐ Set of 7 districts ☐

Each district at $25/copy_____

Complete set at $150/set_____

Total amount_____

IBM/compatible
Disk size 3.5" only

Make of computer_____
Do you have a hard disk (20MB, 40MB, etc.) yes ☐ no ☐

Name_____

Address_____

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Mail and make check payable to:
Extension Software Service
Iowa State University
110 EES Building
Haber Road
Ames, Iowa 50011-3070
1-515-294-8658

1995 Field Data

The District 7 test was planted on farms operated by William Hays near Malvern in Mills County, Marvin Fuller near Corning in Adams County, and Keith Sawyers near Winterset in Madison County. The Madison County location was not harvested because severe and uneven greensnap, resulting from a strong wind and hail storm in mid July, prevented accurate hybrid-to-hybrid comparisons. Field data for the other two locations are presented in Table A.

At planting time, subsoil moisture for the district was excessive. Rainfall for the district was well above normal in April and May and well below normal in August and September. In June, rainfall was below normal at the Mills County location and above normal at the Adams County location. In July, rainfall was well below normal at the Mills County location and near normal at the Adams County location. Temperatures for the district were far below normal in April and May, below normal in June and September, near normal in July, and far above normal in August. The average district yield was 14 bushels per acre below the mean of the five preceding years' averages. Average location yields are listed in Table A.

Table A. Field Data

	Hays Farm* Monona silt loam			Fuller Farm Winterset silty clay loam		
Fertilizer applied, lb	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Preplant	150	52	—	140	30	30
Total	150	52	—	140	30	30
1994 crop	Soybeans			Soybeans		
Row width	30 inches			30 inches		
Planting date	May 17			May 25		
Harvest date	Oct. 9 & 10			Oct. 25 & 26		
Average yield	128 bu/a			134 bu/a		

*Field sampled for protein, oil, and starch percentage data.

Other Reports

Separate reports for variety performance are available for each district shown in Figure 1. A limited supply of these publications is available at your county extension office or from Extension Distribution Center, Printing and Publications Building, Iowa State University, Ames, Iowa 50011. Also, an IBM compatible diskette containing these data along with a hybrid selection program is available from Extension Software Services, 110 EES Bldg., Haber Road, Iowa State University, Ames, Iowa 50011-3070. Along with all of the information as it appears in the written reports, the computer diskettes include computer programs that allow farmers to insert their own drying and shrink costs, expected price of corn, and final moisture percentage after drying. Using these specific criteria, the program calculates an adjusted economic value for each hybrid in the test. Farmers can then determine which hybrids might best fit their own production practices and provide the most profit. The computer program also can sort the hybrids by yield, moisture, adjusted value, root lodging, stalk lodging, dropped ears, protein, oil, starch, or brand and then print the data as sorted. An IBM personal or compatible computer supporting MS-DOS 2.0 or higher, with at least 512K memory is required. The cost of this diskette is $25. All seven districts can be purchased for $150. Order forms, Pm-660-OF-95, are available from county extension offices and included in the printed reports.

The 1995 Iowa Corn Yield Test Report:
Pm-660-1-95 District 1
Pm-660-2-95 District 2
Pm-660-3-95 District 3
Pm-660-4-95 District 4
Pm-660-5-95 District 5
Pm-660-6-95 District 6
Pm-660-7-95 District 7

File: Agronomy 2-2

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